

NOTE: *Diagrams are not drawn to scale. Show all work to receive credit.*

In problems 1 - 7 use the diagram below. Find each measure requested.

1. If $JK = 13.7$, find MN
2. If $MN = 22.8$, find JK
3. If $JK = 2x + 4$ and $MN = 36$, find x
4. If $JK = [3(x + 2) + 6]$ and $MN = 8(x + 1)$, find JK
5. If $LJ = 3.7$, find LM
6. If $LN = 15$, find LK
7. If $LJ = 5x + 8$, $JM = 9x$, and $KN = 7x + 6$
 - a. Find x
 - b. Find LJ
 - c. Find LN



Use this figure for 1 - 7

In problems 8 - 9 use $\triangle ABC$, where D , E , and F are the midpoints of the sides.

8. If $DF = 2x + 10$ and $AB = 5x + 8$, find AE
9. If $AD = 3x$, $DE = 2x + 1$, $CB = 5x - 3$, find AD



Use this figure for 8 - 9

In problems 10 - 13 use the diagram below. Find each measure requested.

10. If $DC = 18.4$, find AD .
11. If $AD = 5x$ and $CD = 2x + 93$, find CD
12. If $AD = 17$ and $CD = 17$ and $m\angle ABC = 46^\circ$, find $m\angle ABD$
13. If $AD = 4$ and $CD = 4$ and $m\angle CBD = 28^\circ$, find $m\angle ABC$



Use this figure for 10 - 13

In problems 14 - 16 use the diagram shown to find each measurement requested.

14. Given that $LT = 27.4$, $UD = 23.8$ and $DT = 27.4$, find LD .
15. Given that m is the perpendicular bisector of $\overline{LD}$, and $TD = 13.1$, find LT
16. Given that m is the perpendicular bisector of $\overline{LD}$, and $TD = 3(x + 8)$ and $LT = 5x$, find LT



Use this figure for 14 - 16

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